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SMSYZ¹WTGALITPCGPEEEKLPIX¹PLSNSLX²RFHNKVYSTTSRSASLRAKKVTFDRVQV
LDAHYDSVLQDVKRAASKVSARLLTVEEACALTPPHSAKSRYGFGAKEVRSLSRRAVNHIR
SVWEDLLEDQHTPIDTTIMAKNEVFCIDPTKGGKKPARLIVYPDLGVRVCEKMALYDIAQK
LPKAIMGPSYGFQYSPAERVDFLLKAWGSKKDPMGFSYDTRCFDSTVTERDIRTEESIYQA
CSLPQEARTVIHSLTERLYVGGPMTNSKGQSCGYRRCRASGVFTTSMGNTMTCYIKALAAC
KAAGIVDPVMLVCGDDLVVISESQGNEEDERNLRAFTEAMTRYSAPPGDLPRPEYDLELIT
SCSSNVSVALDSRGRRRYFLTRDPTTPX³TRAAWETVRHSPVNSWLGNIIQYAPTIWVRMVI
MTHFFSILLAQDTLNQNLNFEMYGAVYSVNPLDLPAIIERLHGLEAFSLHTYSPHELSRVA
ATLRKLGAPPLRAWKSRARAVRASLIAQGARAAICGRYLFNWAVKTKLKLTPLPEASRLDL
SGWFTVGAGGGDIYHSVSHARPRLLLLCLLLLSVGVGIFLLPDR

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TCY<sup>1</sup>ATGTCY<sup>2</sup>TACY<sup>3</sup>CY<sup>4</sup>TGGACY<sup>5</sup>GGY<sup>6</sup>GCCY<sup>7</sup>TY<sup>8</sup>ATY<sup>9</sup>ACACCATGTGGGCCCGAAGAGG AGAAGTTACCGATCAX1CCCTCTGAGTAATTCGCTCATX2CGGTTCCATAATAAGGTGTACT CCACAACCTCGAGGAGTGCCTCTCTGAGGGCAAAGAAGATGACTTTTGACAGGGTGCAGGT GCTGGACGCACACTATGACTCAGTCTTGCAGGACGTTAAGCGGGCCGCCTCTAAGGTTAGT GCGAGGCTCCTCACGGTAGAGGAAGCCTGCGCGCTGACCCCGCCCCACTCCGCCAAATCGC GATACGGATTTGGGGCCAAAAGAGGTGCGCAGCTTATCTAGGAGGGCCGTTAACCACATCCG GTCCGTGTGGGAGGACCTCCTGGAAGACCAACATACCCCAATTGACACAACTATCATGGCT AAAAATGAGGTGTTCTGCATTGATCCAACTAAAGGTGGGAAAAAGCCAGCTCGCCTCATCG TATACCCCGACCTTGGGGTCAGGGTGTGCGAAAAGATGGCCCTCTATGACATCGCACAAAA GCTTCCCAAAGCGATAATGGGGCCATCCTATGGGTTCCAATACTCTCCCGCAGAACGGGTC GATTTCCTCCTCAAAGCTTGGGGAAGTAAGAAGGACCCAATGGGGTTCTCGTATGACACCC GCTGCTTTGACTCAACCGTCACGGAGAGGGACATAAGAACAGAAGAATCCATATATCAGGC TTGTTCTCTGCCTCAAGAAGCCAGAACTGTCATACACTCGCTCACTGAGAGACTTTACGTA GGAGGGCCCATGACAAACAGCAAAGGGCAATCCTGCGGCTACAGGCGTTGCCGCGCAAGCG GTGTTTTCACCACCAGCATGGGGAATACCATGACATGTTACATCAAAGCCCTTGCAGCGTG TAAGGCTGCAGGGATCGTGGACCCTGTTATGTTGGTGTGTGGAGACGACCTGGTCGTCATC TCAGAGAGCCAAGGTAACGAGGAGGACGAGCGAAACCTGAGAGCTTTCACGGAGGCTATGA CCAGGTATTCCGCCCCTCCCGGTGACCTTCCCAGACCGGAATATGACTTGGAGCTTATAAC ATCCTGCTCCTCAAACGTATCGGTAGCGCTGGACTCTCGGGGTCGCCGCCGGTACTTCCTA ACCAGAGACCCTACCACTCCAX3TCACCCGAGCTGCTTGGGAAACAGTAAGACACTCCCCTG TCAATTCTTGGCTGGGCAACATCATCCAGTACGCCCCCACAATCTGGGTCCGGATGGTCAT AATGACTCACTTCTTCTCCATACTATTGGCCCAGGACACTCTGAACCAAAATCTCAATTTT GAGATGTACGGGGCAGTATACTCGGTCAATCCATTAGACCTACCGGCCATAATTGAAAGGC TACATGGGCTTGAAGCCTTTTCACTGCACACATACTCTCCCCACGAACTCTCACGGGTGGC AGCAACTCTCAGAAAACTTGGAGCGCCTCCCCTTAGAGCGTGGAAGAGTCGGGCGCGTGCC GTGAGAGCTTCACTCATCGCCCAAGGAGCGAGGGCGGCCATTTGTGGCCGCTACCTCTTCA ACTGGGCGGTGAAAACAAAGCTCAAACTCACTCCATTGCCCGAGGCGAGCCGCCTGGATTT ATCCGGGTGGTTCACCGTGGGCGCCGGCGGGGGCGACATTTATCACAGCGTGTCGCATGCC CGACCCCGCCTATTACTCCTTTGCCTACTCCTACTTAGCGTAGGAGTAGGCATCTTTTTAC TCCCCGATCGATGA

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MAPITAYSQOTRGLLGCIITSLTGRDKNQVEGEVQVVSTATQSFLATCVNGVCWTVYHGAG SKTLAGPKGPITQMYTNVDQDLVGWQAPPGARSLTPCTCGSSDLYLVTRHADVIPVRRRGD SRGSLLSPRPVSYLKGSSGGPLLCPSGHAVGIFRAAVCTRGVAKAVDFVPVESMETTMRSP VFTDNSSPPAVPQTFQVAHLHAPTGSGKSTKVPAAYAAQGYKVLVLNPSVAATLGFGAYMS KAHGIDPNIRTGVRTITTGAPVTYSTYGKFLADGGCSGGAYDIIICDECHSTDSTTILGIG TVLDQAETAGARLVVLATATPPGSVTVPHPNIEEVALSNTGEIPFYGKAIPIEAIRGGRHL IFCHSKKKCDELAAKLSGLGINAVAYYRGLDVSVIPTIGDVVVVATDALMTGYTGDFDSVI DCNTCVTQTVDFSLDPTFTIETTTVPQDAVSRSQRRGRTGRGRMGIYRFVTPGERPSGMFD SSVLCECYDAGCAWYELTPAETSVRLRAYLNTPGLPVCQDHLEFWESVFTGLTHIDAHFLS OTKOAGDNFPYLVAYOATVCARAQAPPPSWDQMWKCLIRLKPTLHGPTPLLYRLGAVQNEV TLTHPITKYIMACMSADLEVVTSTWVLVGGVLAALAAYCLTTGSVVIVGRIILSGRPAIVP DREFLYQEFDEMEECASHLPYIEQGMQLAEQFKQKALGLLQTATKQAEAAAPVVESKWRAL ETFWAKHMWNFISGIQYLAGLSTLPGNPAIASLMAFTASITSPLTTQSTLLFNILGGWVAA QLAPPSAASAFVGAGIAGAAVGSIGLGKVLVDILAGYGAGVAGALVAFKVMSGEMPSTEDL  $\verb|VNLLPAILSPGALVVGVVCAAILRRHVGPGEGAVQWMNRLIAFASRGNH{\textbf{x}}^2 SPTHYVPESDA|$ AARVTQILSSLTITQLLKRLHQWINEDCSTPCSGSWLRDVWDWICTVLTDFKTWLQSKLLP OLPGVPFFSCQRGYKGVWRGDGIMQTTCPCGAQITGHVKNGSMRIVGPKTCSNTWHGTFPI NAYTTGPCTPSPAPNYSRALWRVAAEEYVEVTRVGDFHYVTGMTTDNVKCPCQVPAPEFFT EVDGVRLHRYAPACRPLLREEVTFQVGLNQYLVGSQLPCEPEPDVAVLTSMLTDPSHITAE  ${\tt TAKRRLARGSPPSLASSSAIQLSAPSLKATCTTHHVSPDADLIEANLLWRQEMGG\textbf{\textbf{X}}^{\textbf{1}} {\tt ITRVE}$ SENKVVVLDSFDPLRAEEDEREVSVPAEILRKSKKFPAAMPIWARPDYNPPLLESWKDPDY VPPVVHGCPLPPIKAPPIPPPRRKRTVVLTESSVSSALAELATKTFGSSESSAVDSGTATA LPDOASDDGDKGSDVESYSSMPPLEGEPGDPDLSDGSWSTVSEEASEDVVCC

4/7

ATGGCGCCCATCACGGCCTACTCCCAACAGACGCGGGGCCTACTTGGTTGCATCACTA GCCTTACAGGCCGGGACAAGAACCAGGTCGAGGGAGAGGTTCAGGTGGTTTCCACCGCAAC ACAATCCTTCCTGGCGACCTGCGTCAACGGCGTGTGTTGGACCGTTTACCATGGTGCTGGC TCAAAGACCTTAGCCGGCCCAAAGGGGCCAATCACCCAGATGTACACTAATGTGGACCAGG ACCTCGTCGGCTGGCAGGCCCCCCCGGGGCGCGTTCCTTGACACCATGCACCTGTGGCAG CTCAGACCTTTACTTGGTCACGAGACATGCTGACGTCATTCCGGTGCGCCGGCGGGGGCGAC AGTAGGGGGAGCCTGCTCCCCCAGGCCTGTCTCCTACTTGAAGGGCTCTTCGGGTGGTC CACTGCTCTGCCCTTCGGGGCACGCTGTGGGCATCTTCCGGGCTGCCGTATGCACCCGGGG GGTTGCGAAGGCGGTGGACTTTGTGCCCCGTAGAGTCCATGGAAACTACTATGCGGTCTCCCG GTCTTCACGGACAACTCATCCCCCCCGGCCGTACCGCAGACATTTCAAGTGGCCCACCTAC ACGCTCCCACTGGCAGCGGCAAGAGTACTAAAGTGCCGGCTGCATATGCAGCCCAAGGGTA CAAGGTGCTCGTCCTCAATCCGTCCGTTGCCGCTACCTTAGGGTTTTGGGGGCGTATATGTCT AAGGCACACGGTATTGACCCCAACATCAGAACTGGGGTAAGGACCATTACCACAGGCGCCC CCGTCACATACTCTACCTATGGCAAGTTTCTTGCCGATGGTGGTTGCTCTGGGGGGCGCTTA TGACATCATAATATGTGATGAGTGCCATTCAACTGACTCGACTACAATCTTGGGCATCGGC  ${\tt ACAGTCCTGGACCAAGCGGAGACGGCTGGAGCGCGCTTGTCGTCGCCACCGCTACGC}$ CTCCGGGATCGGTCACCGTGCCACACCCAAACATCGAGGAGGTGGCCCTGTCTAATACTGG  ${\sf AGAGATCCCCTTCTATGGCAAAGCCATCCCCATTGAAGCCATCAGGGGGGGAAGGCATCTC}$ ATTTTCTGTCATTCCAAGAAGAAGTGCGACGAGCTCGCCGCAAAGCTGTCAGGCCTCGGAA  ${ t TCAACGCTGTGGCGTATTACCGGGGGCTCGATGTGTCCGTCATACCAACTATCGGAGACGT}$ CGTTGTCGTGGCAACAGACGCTCTGATGACGGGCTATACGGGCGACTTTGACTCAGTGATC GACTGTAACACATGTGTCACCCAGACAGTCGACTTCAGCTTGGATCCCACCTTCACCATTG AGACGACGACCGTGCCTCAAGACGCAGTGTCGCGCTCGCAGCGGCGGGGTAGGACTGGCAG AGGTAGGATGGCCATCTACAGGTTTGTGACTCCGGGAGAACGGCCCTCGGGCATGTTCGAT TCCTCGGTCCTGTGTGAGTGCTATGACGCGGGCTGTGCTTGGTACGAGCTCACCCCCGCCG AGACCTCGGTTAGGTTGCGGGCCTACCTGAACACACCAGGGTTGCCCGTTTGCCAGGACCA CCTGGAGTTCTGGGAGAGTGTCTTCACAGGCCTCACCCACATAGATGCACACTTCTTGTCC CAGACCAAGCAGGCAGGAGACAACTTCCCCTACCTGGTAGCATACCAAGCCACGGTGTGCG CCAGGGCTCAGGCCCCACCTCCATCATGGGATCAAATGTGGAAGTGTCTCATACGGCTGAA ACCTACGCTGCACGGCCAACACCCTTGCTGCTACAGGCTGGGAGCCGTCCAAAATGAGGTC TCACTAGCACCTGGGTGCTGGTGGGCGGAGTCCTTGCAGCTCTGGCCGCGTATTGCCTGAC  ${\tt AACAGGCAGTGTGGTCATTGTGGGTAGGATTATCTTGTCCGGGAGGCCGGCTATTGTTCCC}$ GACAGGGAGTTTCTCTACCAGGAGTTCGATGAAATGGAAGAGTGCGCCTCGCACCTCCCTT ACATCGAGCAGGGAATGCAGCTCGCCGAGCAATTCAAGCAGAAAGCGCTCGGGTTACTGCA AACAGCCACCAAACAAGCGGAGGCTGCTGCTCCCGTGGTGGAGTCCAAGTGGCGAGCCCTT GAGACATTCTGGGCGAAGCACATGTGGAATTTCATCAGCGGGATACAGTACTTAGCAGGCT TATCCACTCTGCCTGGGAACCCCGCAATAGCATCATTGATGGCATTCACACCCTCTATCAC CAACTCGCCCCCCCAGCGCCTTCGGCTTTCGTGGGCGCCGGCATCGCCGGTGCGGCTG  ${
m TTGGCAGCATAGGCCTTGGGAAGGTGCTTGTGGACATTCTGGCGGGTTATGGAGCAGGAGT$ GTCAATCTACTTCCTGCCATCCTCTCTCTCTGGCGCCCCTGGTCGTGGGGGTCGTGTGCAG CAATACTGCGTCGACACGTGGGTCCGGGAGAGGGGGCTGTGCAGTGGATGAACCGGCTGAT AGCGTTCGCCTCGCGGGGTAATCATGX2TTCCCCCCACGCACTATGTGCCTGAGAGCGACGCC GCAGCGCGTGTTACTCAGATCCTCTCCAGCCTTACCATCACTCAGCTGCTGAAAAGGCTCC ACCAGTGGATTAATGAAGACTGCTCCACACCGTGTTCCGGCTCGTGGCTAAGGGATGTTTG GGACTGGATATGCACGGTGTTGACTGACTTCAAGACCTGGCTCCAGTCCAAGCTCCTGCCG

## 5/7

CAGCTACCGGGAGTCCCTTTTTTCTCGTGCCAACGCGGGTACAAGGGAGTCTGGCGGGAG ACGGCATCATGCAAAACCACCTGCCCATGTGGAGCACAGATCACCGGACATGTCAAAAACGG TTCCATGAGGATCGTCGGGCCTAAGACCTGCAGCAACACGTGGCATGGAACATTCCCCCATC AACGCATACACCACGGGCCCCTGCACACCCTCTCCAGCGCCCAAACTATTCTAGGGCGCTGT GGGCATGACCACTGACAACGTAAAGTGCCCATGCCAGGTTCCGGCTCCTGAATTCTTCACG GAGGTGGACGGAGTGCACAGGTACGCTCCGGCGTGCAGGCCTCTCCTACGGGAGG AGGTTACATTCCAGGTCGGGCTCAACCAATACCTGGTTGGGTCACAGCTACCATGCGAGCC CGAACCGGATGTAGCAGTGCTCACTTCCATGCTCACCGACCCCTCCCACATCACAGCAGAA ACGGCTAAGCGTAGGTTGGCCAGGGGGTCTCCCCCCCTCCTTGGCCAGCTCTTCAGCTATCC AGTTGTCTGCGCCTTCCTTGAAGGCGACATGCACTACCCACCATGTCTCTCCGGACGCTGA CCTCATCGAGGCCAACCTCCTGTGGCGGCAGGAGATGGGCGGGGAX1CATCACCCGCGTGGAG TCGGAGAACAAGGTGGTAGTCCTGGACTCTTTCGACCCGCTTCGAGCGGAGGAGGATGAGA GGGAAGTATCCGTTCCGGCGGAGATCCTGCGGAAATCCAAGAAGTTCCCCGCAGCGATGCC CATCTGGGCGCCCCGGATTACAACCCTCCACTGTTAGAGTCCTGGAAGGACCCGGACTAC GTCCCTCCGGTGCTGCACGGTGCCCGTTGCCACCTATCAAGGCCCCCTCCAATACCACCTC CACGGAGAAAGAGGACGGTTGTCCTAACAGAGTCCTCCGTGTCTTCTGCCTTAGCGGAGCT CGCTACTAAGACCTTCGGCAGCTCCGAATCATCGGCCGTCGACAGCGGCACCGCCC CTTCCTGACCAGGCCTCCGACGACGTGACAAAGGATCCGACGTTGAGTCGTACTCCTCCA TGCCCCCCTTGAGGGGAACCGGGGACCCCGATCTCAGTGACGGGTCTTGGTCTACCGT GAGCGAGGAAGCTAGTGAGGATGTCGTCTGCTGC

6/7

7/7

ASKAALIEEGQRMAEMLKSKIQGLLQQATRQAQDIQPAIQSSWPKLEQFWAKHMWNFISGIQYLAGLSTLPGNPAVASMMAFSAALTSPLPTSTTILLNIMGGWLASQIAPPAGATGFVVSGLVGAAVGSIGLGKILVDVLAGYGAGI SGALVAFKIMSGEKPTVEDVVNLLPAILSPGALVVGVICAAILRRHVGPGEGAVQWMNRLIAFASRGNHASPTH YVPESDAAARVTQILSSLTITQLLKRLHQWINEDCSTPC